BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Roads and drains at Ayyappa Swamy Layout, Bharathgowda Layout and Providing Grill Work at BB Road in Ward No.01 of Yelahanka Sub Division (PACKAGE-01)

MODIFIED SCHEDULE-B

Sl. No.	Description of Item	Unit	Qty	Rate in Rs.	
				In Fig	In Words
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	Cum	2071.52	217.98	Rupees Two Hundred Seventeen And Paise Ninety Eight Only
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	425.42	5780.92	Rupees Five Thousand Seven Hundred Eighty And Paise Ninety Two Only
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.Specification No. KBS 4.1, 4.6.	Cum	581.86	6298.47	Rupees Six Thousand Two Hundred Ninety Eight And Paise Forty Seven Only
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	4233.72	398.45	Rupees Three Hundred Ninety Eight And Paise Forty Five Only
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3	Tonne	34.67	78985.16	Rupees Seventy Eight Thousand Nine Hundred Eighty Five And Paise Sixteen Only

Sl. No.	Description of Item	Unit	Qty	Rate in Rs.	
				In Fig	In Words
6	KSRB 5.2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 - do - cement mortar 1:6 KBS 5.1.13	Cum	0.00	5115.35	Rupees Five Thousand One Hundred Fifteen And Paise Thirty Five Only
7	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	3.82	6034.69	Rupees Six Thousand Thirty Four And Paise Sixty Nine Only
8	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate	Sqm	1543.92	2453.85	Rupees Two Thousand Four Hundred Fifty Three And Paise Eighty Five Only
9	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge Data Rate	Sqm	31.20	5685.90	Rupees Five Thousand Six Hundred Eighty Eight And Paise Ninety Only
10	Fabrication, providing and erecting in position Hot dip galvanised Grill using 72 x72 x 4mm Sq. GI Pipe frame with top pipe bending in heavy hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised Sq. rod for verticals at 150mm c/c, as shown in the drawing including providing ho dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 72x12mm and 50x6mm arch bent to hot dip galvanised flats the work is inclusive of troughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq rods, GI gorged designs etc., heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in three places for each flop. Heavy duty locking arrangements at two places including cost of labour, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the engineer-in-charge of the work.	Sqm	0.00	9601.20	Rupees Nine Thousand Six Hundred One And Paise Twenty Only
11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	789.00	454.10	Rupees Four Hundred Fifty Four And Paise Ten Only

Sl No.	Description of Item	Unit	Qty	Rate in Rs.	
				In Fig	In Words
12	KSRB 14.6 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS	Sqm	0.00	1171.99	Rupees One Thousand One Hundred Seventy One And Paise Ninety Nine Only
13	Supply, Fabrication, Painting and Fixinf of Pre-Cast Bollards for footpath and Property edge/ Meadians etc and any other items as specified in drawings or as approved by Engineer Incharge	Nos	0.00	1302.00	Rupees One Thousand Three Hundred Two Only
14	KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.	Quantial	0.00	7999.13	Rupees Seven Thousand Nine Hundred Ninety Nine And Paise Thirteen Only
15	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.MORTH Specification No.301	Cum	421.92	45.63	Rupees Forty Five And Paise Sixty Three Only
16	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3	Sqm	1184.00	6.68	Rupees Six And Paise Sixty Eight Only
17	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.	Cum	174.96	2094.67	Rupees Two Thousand Ninety Four And Paise Sixty Seven Only

Sl. No.	Description of Item	Unit	Qty	Rate in Rs.	
				In Fig	In Words
18	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.	Cum	210.96	4079.15	Rupees Four Thousand Seventy Nine And Paise Fifteen Only
19	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.	Cum	210.96	5471.81	Rupees Five Thousand Four Hundred Seventy One And Paise Fifty One Only

Sl. No.	Description of Item	Unit	Qty	Rate in Rs.	
				In Fig	In Words
	EIRL-ITEMS				
E-1	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10 cms thick (KPWD SR 2018-19, Page No.27, Item No.5.31.2)	Sqm	584.82	1015.06	Rupees One Thousand Fifteen And Paise Six Only
E-2	KSRB 5-8.1 : Providing two line dressing to granite stone slab /granite stone masonry as per specifications. KBS 5.1.13 (KPWD SR 2018-19, Page No.26, Item No.5.18)	Sqm	584.82	1663.94	Rupees One Thousand Six Hundred Sixty Three And Paise Ninety Four Only
E-3	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks having block of size 400x200x200mm density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 (KPWD SR 2018-19, Page No.27, Item No.5.27.1)	Sqm	112.80	1015.06	Rupees One Thousand Fifteen And Paise Six Only
E-4	KSRB15-3 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (KPWD SR 2018-19, Page No.115, Item No.15.12)	Sqm	37.60	260.44	Rupees Two Hundred Sixty And Paise Forty Four Only
E-5	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (KPWD SR 2018-19, Page No.180, Item No.24.1)	Sqm	106.50	89.04	Rupees Eighty Nine And Paise Four Only
E-6	Providing and fixing stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of and electrical charges, etc., complete as per specifications. (KPWD SR 2018-19, Page No.45, Item No.7.38)	Cum	213.60	6701.37	Rupees Six Thousand Seven Hundred One And Paise Thirty Seven Only

Executive Engineer
Yelahanka Division
BBMP